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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/807,343 | 03/24/2004 | Steven Burnett | 08350.9194-02000 | 3491 |

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CATERPILLAR/FINNEGAN, HENDERSON, L.L.P.
901 New York Avenue, NW
WASHINGTON, DC 20001-4413

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| EXAMINER |
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FOX, CHARLES A

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| ART UNIT | PAPER NUMBER |
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3652

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06/01/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | | | |
|------------------------------|-----------------|--|----------------|--|
| Office Action Summary | Application No. | | Applicant(s) | |
| | 10/807,343 | | BURNETT ET AL. | |
| | Examiner | | Art Unit | |
| | Charles A. Fox | | 3652 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 March 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 15 and 19-33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 15 and 19-33 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 15,19-22 and 25-33 are rejected under 35 U.S.C. 102(b) as being anticipated by Liberman et al. Regarding claims 15 and 29 Liberman et al. US 4,112,823 discloses a control system for a cylinder based ejector system for a vehicle comprising:

a power source;

said power source for moving a cylinder attached to an ejection plate;

wherein said cylinder will move at different speeds at different extension lengths when fluid is provided at a constant pressure;

a speed control operative connected to the cylinder and automatically varying the fluid input to the cylinder such that all stages of the cylinder operate at the same speed.

Regarding claim 19 Liberman et al. also disclose a valve in communication with the cylinder for adjusting a flow of fluid to said cylinder.

Regarding claims 20 and 21 Liberman further disclose the device as having sensors that detect the full extension of each stage of the cylinder and a valve for adjusting the fluid flow to the cylinder in response to a signal from the sensor.

Regarding claim 22 Liberman et al. also disclose a sensor in the cylinder for detecting when fluid pressure in the cylinder exceeds a predetermined value.

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Regarding claim 25 Liberman et al. also disclose a pump as providing the fluid to said cylinder.

Regarding claims 26-28 Liberman also discloses a valve disposed between the fluid source and the cylinder, wherein the valve has a movable spool for regulating the fluid flow via a variable movable resistive control device.

Regarding claims 30 and 31 Liberman discloses a valve for regulating the fluid flow to the cylinder, wherein said cylinder acts as a motor to move the ejector plate.

Regarding claims 32 and 33 Liberman further disclose the device as having sensors that detect the full extension of each stage of the cylinder and a valve for adjusting the fluid flow to the cylinder in response to a signal from the sensor.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 23 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liberman et al. as applied to claim 22 above, and further in view of Henneberry.

Liberman teaches the limitations of claim 22 as above, they further teach relieving the pressure from the cylinder if it reaches a predetermined limit, thereby stopping movement of the blade. They do not teach returning the ejector blade to the start position in response to an overpressure signal. Henneberry US 4,522,551 teaches a hydraulic control for an ejection plate with an overpressure sensor, wherein when said

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sensor is tripped the ejector plate is moved to its original position. It would have been obvious to one of ordinary skill in the art, at the time of invention to provide the device taught by Liberman et al. with controls as taught by Henneberry in order to protect the hydraulic system from damage by immediately relieving a strain on the system when detected.

Response to Amendment

No amendments were submitted in response to the office action mailed on December 14, 2006.

Response to Arguments

Applicant's arguments filed March 14, 2007 have been fully considered but they are not persuasive. Regarding Liberman not disclosing a cylinder that has multiple stages that operate at varying speeds the applicant is incorrect. In column 6 lines 9-27 Liberman clearly discloses that a constant flow rate to a multistage cylinder will move each stage at a different speed. Regarding the speed variation the Liberman reference teaches cylinder has a rate of extension which is constant over time. As such the overall extension of the cylinder remains constant over any time period which would indicate a constant speed as speed is a measure of the time it take to traverse a set distance. Therefore the reference meets the limitations of the claims as written. All other arguments are based on Liberman not meeting the limitations of claim 15, an assertion which has been shown to be false. As such all claims are finally rejected.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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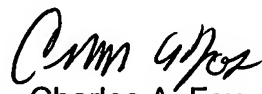
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles A. Fox whose telephone number is 573-272-6923. The examiner can normally be reached on Mon-Thurs 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Mackey can be reached on 573-272-6916. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

 5-24-07
Charles A. Fox
Primary Examiner
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